

STIC Biotechnology Systems Branch

Attachment

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

10/552,909A

Source:

IFWJ

Date Processed by STIC:

11/17/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05): U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/552,909A</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <input type="checkbox"/> Wrapped Nucleic Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <input type="checkbox"/> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <input checked="" type="checkbox"/> Misaligned Amino Numbering	The numbering under each 5 th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <input checked="" type="checkbox"/> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <input type="checkbox"/> Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <input type="checkbox"/> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <input type="checkbox"/> Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <input type="checkbox"/> Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <input type="checkbox"/> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <input type="checkbox"/> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)	
11 <input type="checkbox"/> Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules	
12 <input type="checkbox"/> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <input type="checkbox"/> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,909A

DATE: 11/07/2006
TIME: 11:51:44

Input Set : N:\RJAVED\10552909A.txt
Output Set: N:\CRF4\11072006\J552909A.raw

*see item 4 on Errata
summary sheet*

see pg 1, 3-4

*Does Not Comply
Corrected Diskette Needed*

*(300) insert this generic identifier
at the beginning of
publication information:
it never has a
response.*

*this is
for Publication Date
use this format: yyyy-mm-dd*

3 <110> APPLICANT: Xiao, Yingxiao
4 Feng, Xin-Hua
6 <120> TITLE OF INVENTION: Gene expression suppression agents
8 <130> FILE REFERENCE: 132848-01US
10 <140> CURRENT APPLICATION NUMBER: US 10/552,909A
11 <141> CURRENT FILING DATE: 2005-10-13
13 <160> NUMBER OF SEQ ID NOS: 9
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 27
17 <212> TYPE: DNA
18 <213> ORGANISM: Human
20 <220> FEATURE:
21 <221> NAME/KEY: primer_bind
22 <223> OTHER INFORMATION: Primer to amplify upstream promoter containing Box D in the
Human 5S RNA gene
25 <310> PATENT DOC NO: PCT/US2003/014631
26 <311> PATENT FILING DATE: 2003-05-12
W--> 27 <312> PUBLICATION DATE: PCT WO 2004/106488 A2
29 <400> SEQUENCE: 1
30 aacggatcca aaacgctgcc tccgcga 27
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 25
34 <212> TYPE: DNA
35 <213> ORGANISM: Human
37 <220> FEATURE:
38 <221> NAME/KEY: primer_bind
39 <223> OTHER INFORMATION: Downstream reverse primer used to amplify the upstream
promoter containing Box D in the Human 5S RNA gene. The
sequence contains a PstI site at 7 bp upstream of the
transcription site.
44 <400> SEQUENCE: 2
45 tagacgctgc aggaggcgcc tggct 25
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 269
53 <212> TYPE: DNA
54 <213> ORGANISM: Human
56 <220> FEATURE:
57 <221> NAME/KEY: promoter
58 <223> OTHER INFORMATION: Calculated BamHI-PstI fragment of the upstream promoter
containing Box D in the Human 5S gene. Cloned into
pBluescript-KS to give plasmid pPPVI.
62 <400> SEQUENCE: 3
63 ggatccaaaa cgctgcctcc gcgcacagggc ggaggacgga gggcgccccca ggatcggtggg 60

ince
this is
patent
current
umber,
change
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3/07

W-->
W-->

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,909A

DATE: 11/07/2006
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Input Set : N:\RJAVED\10552909A.txt
Output Set: N:\CRF4\11072006\J552909A.raw

65 ccctgggcct gacgcctcgg agcactccct gtcggagcg ggcccgatgt ggtgaaagct 120
 67 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
 69 ccgcggcccc gggctggcgg tgcggctgc aatccggcgg gcacggccgg cccggctggg 240
 71 ctctggggc agccaggcgc ctccctcag 269
 73 <210> SEQ ID NO: 4
 74 <211> LENGTH: 84
 75 <212> TYPE: DNA
 76 <213> ORGANISM: Human
 78 <220> FEATURE:
 79 <221> NAME/KEY: terminator
 80 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
 81 Serves as a top strand to anneal with SEQ ID NO: 5 to
 82 create a double-stranded DNA molecule.
 84 <400> SEQUENCE: 4
 86 agaagaccaa gctaaggcagg gtcggcctg tttagtactt ggatggaga ccgcctggg 60
 88 ataccgggtg ctgtaggct tttg 84
 91 <210> SEQ ID NO: 5
 92 <211> LENGTH: 88
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Human
 96 <220> FEATURE:
 97 <221> NAME/KEY: terminator
 98 <223> OTHER INFORMATION: Comprises Box A, C and terminator of the human 5S RNA gene.
 99 Serves as a top strand to anneal with SEQ ID NO: 4 to
 100 create a double-stranded DNA molecule.
 102 <400> SEQUENCE: 5
 103 tcgacaaaaa gcctacagca cccggattt ccaggcggtc tcccatccaa gtactaacca 60
 105 ggcccgaccc tgcttagctt cgtttctt 88
 108 <210> SEQ ID NO: 6
 109 <211> LENGTH: 367
 110 <212> TYPE: DNA
 111 <213> ORGANISM: Human
 113 <220> FEATURE:
 114 <221> NAME/KEY: promoter
 115 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the
 116 upstream promoter containing Box D, A, C and the terminator
 117 of the Human 5S gene.
 119 <400> SEQUENCE: 6
 120 ggatccaaaa cgctgcctcc ggcacaggcgg gggcgatccc ggatcggtgg 60
 122 ccctggcct gacgcctcgg agcactccct gtcggagcg ggcccgatgt ggtgaaagct 120
 124 cgggagcgcg ggagccgggg gaaggccgcg ggcagccgtc gggggtcccc gatccgagcc 180
 126 ccgcggcccc gggctggcgg tgcggctgc aatccggcgg gcacggccgg cccggctggg 240
 128 ctctggggc agccaggcgc ctccctcagg aattcgatac aagacgaagc taagcagggt 300
 130 cggcctgggt tagtacttgg atgggagacc gcctggaat accgggtctg taggcttt 360
 132 tgtcgac 367
 134 <210> SEQ ID NO: 7
 135 <211> LENGTH: 51
 136 <212> TYPE: DNA
 137 <213> ORGANISM: Human

Best Available Copy

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/552,909A

DATE: 11/07/2006
TIME: 11:51:44

Input Set : N:\RJAVED\10552909A.txt
Output Set: N:\CRF4\11072006\J552909A.raw

139 <220> FEATURE:
140 <221> NAME/KEY: misc_RNA
141 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand
142 to anneal with SEQ ID NO: 8 to create a double-stranded DNA
143 molecule with PstI at the 5' end and BbsI at the 3' end.

W--> 145 <400> SEQUENCE: 7
146 gnnnnnnnnn nnnnnnnnnn tttcgggnnn nnnnnnnnnn nnnnnnnnnn t 51 n's need explanation. See p. 4 for error explanation.
149 <210> SEQ ID NO: 8
150 <211> LENGTH: 59
151 <212> TYPE: DNA
152 <213> ORGANISM: Human
154 <220> FEATURE:
155 <221> NAME/KEY: misc_RNA
156 <223> OTHER INFORMATION: Contains designed siRNA sequence. Serves as a top strand
157 to anneal with SEQ ID NO: 7 to create a double-stranded DNA
158 molecule with PstI at the 5' end and BbsI at the 3' end.
160 <400> SEQUENCE: 8
W--> 161 agctaaaaaa nnnnnnnnnn nnnnnnnncc gaaahnnnnn nnnnnnnnnn nnngctgca 59 see p. 4
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 399
165 <212> TYPE: DNA
166 <213> ORGANISM: Human
168 <220> FEATURE:
169 <221> NAME/KEY: misc_structure
170 <223> OTHER INFORMATION: A BamHI-SalI fragment of plasmid pPPV2 containing the siRNA
171 design. The second stretch of the 19 "n" bases are OK, but all the n's
172 complementary and reverse to the first stretch. need explanation, further.
174 <400> SEQUENCE: 9
175 ggatccaaaa cgctgcctcc gcgcacaggc ggaggacgga gggcgcccc gatcggtgg 60
177 ccctggccct gacgcctcg agcactccct gctccgagcg ggcccgatgt ggtggaaagt 120
179 cgggagcgcg gagccgggg gaaggcccg ggcagccgtc ggggtcccc gatccgagcc 180
181 ccgcggcccc gggctggcg tgctggctgc aatccggcg gcacggccgg cggggctggg 240
183 ctettggggc agccaggec ctecttcagec nnnnnnnnnn nnnnnnnnnnt ttctggannnn 300
185 nnnnnnnnnn nnnntttta gctaagcagg gtcggccctg gtttagtactt ggatgggaga 360
187 cgcctggga ataccgggtg ctgttaggctt ttgtcgac 399

FYI: all nucleotides
MUST be in
lower-case
letters

which bases do
these n's
represent?
(see 1.823 of
Sequence Rules)
and p. 4

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/552,909A

DATE: 11/07/2006
TIME: 11:51:45

Input Set : N:\RJAVED\10552909A.txt
Output Set: N:\CRF4\11072006\J552909A.raw

Use of n's or Xaa's(NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:7; N Pos. 3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,28,29,30
Seq#:7; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46
Seq#:8; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,35
Seq#:8; N Pos. 36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53
Seq#:9; N Pos. 271,272,273,274,275,276,277,278,279,280,281,282,283,284,285
Seq#:9; N Pos. 286,287,288,289,296,297,298,299,300,301,302,303,304,305,306
Seq#:9; N Pos. 307,308,309,310,311,312,313,314

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/552,909A**DATE: 11/07/2006**
TIME: 11:51:45**Input Set : N:\RJAVED\10552909A.txt**
Output Set: N:\CRF4\11072006\J552909A.raw

L:25 M:284 W: Blank Line not Allowed, <310> field identifier
L:27 M:256 W: Invalid Numeric Header Field, Wrong PUBLICATION DATE:YYYY-MM-DD
L:146 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:161 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:183 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:240
L:183 M:112 C: (48) String data converted to lower case,
M:341 Repeated in SeqNo=9